

Article

# A Simple and Robust Approach for Evaluation of Antivirals Using A Recombinant Influenza Virus Expressing *Gaussia* Luciferase

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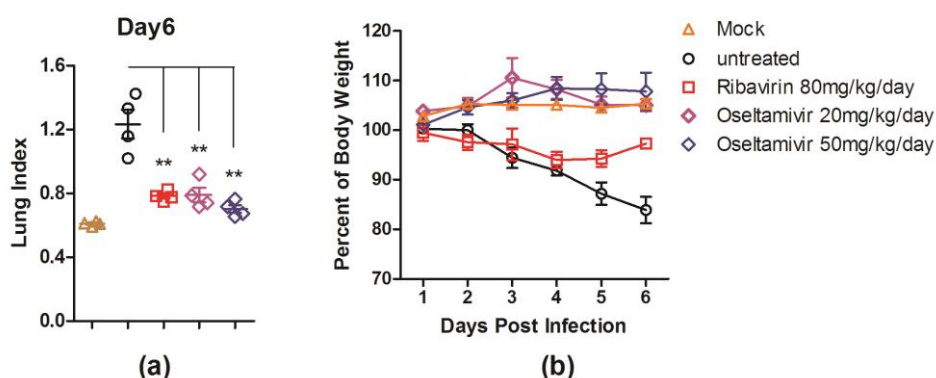
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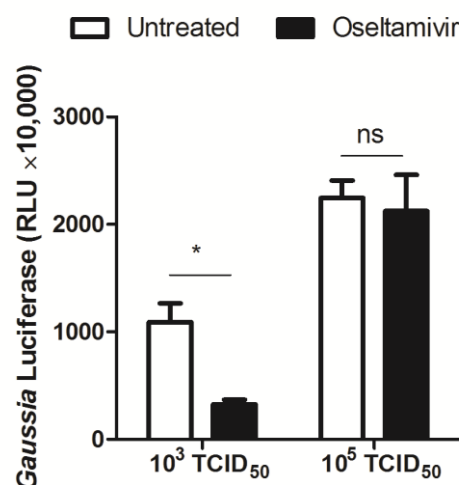
## Supplementary Materials and methods

### S1.1 Evaluation of Lung index

Female BALB/c mice (4 to 6 weeks old) were inoculated intranasally with the indicated amount of virus in 30  $\mu$ l under light isoflurane anesthesia. Body weight was monitored daily. Mice losing 20% of their original body weight were humanely euthanized. At day 6 post-infection, mice were euthanized and the lungs were dissected and weighted, and the lung index was calculated.



**Figure S1.** *In vivo* evaluation of therapeutic interventions. Mice were intranasally infected with  $10^3$  TCID<sub>50</sub> of PR8-NS1-Gluc, and were treated with indicated drugs by gavage. The treatments were started 2 h before infection and were given twice daily until mice were sacrificed. (a) The lung index of mice were evaluated at day6 after infection. (b) The body weight of mice were monitored daily. \*\*,  $p < 0.01$ .



**Figure S2.** Evaluation of the therapeutic efficacy of Oseltamivir for infection of different doses. Mice were intranasally infected with 10<sup>3</sup> TCID<sub>50</sub> and 10<sup>5</sup> TCID<sub>50</sub> of PR8-NS1-Gluc, respectively. Oseltamivir phosphate (50mg/kg/day) were administrated by gavage. The treatments were started 2 h before infection and were given once daily. At day 2 post-infection, the lungs were dissected for luciferase assay. \*,  $p < 0.05$ .